FIG. 1

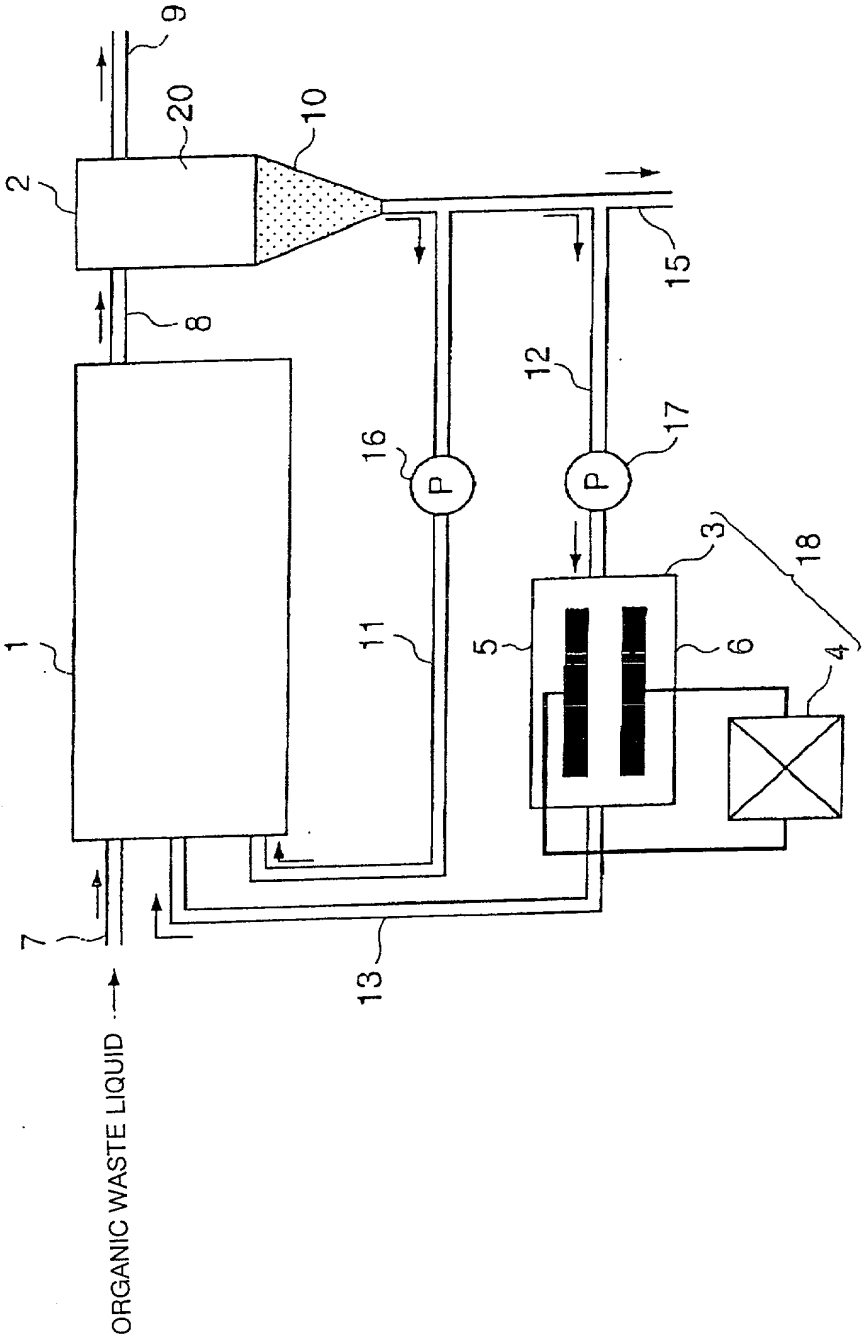


FIG. 2

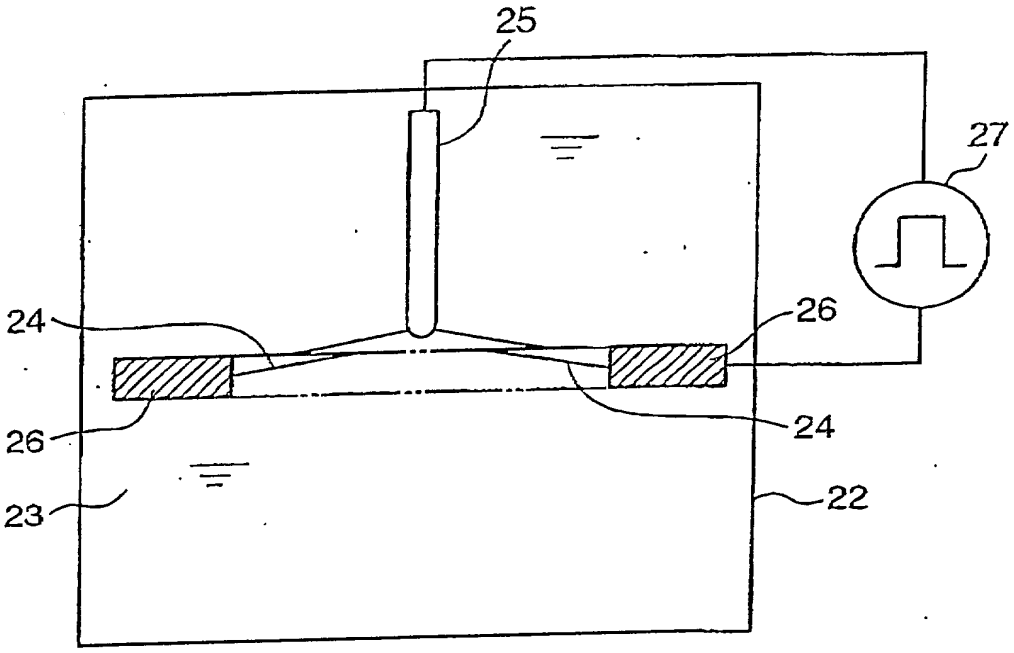


FIG. 3

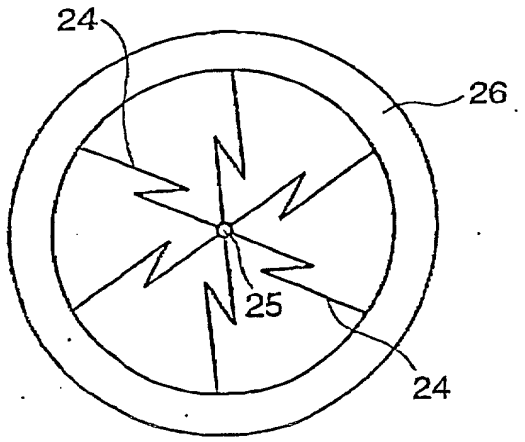
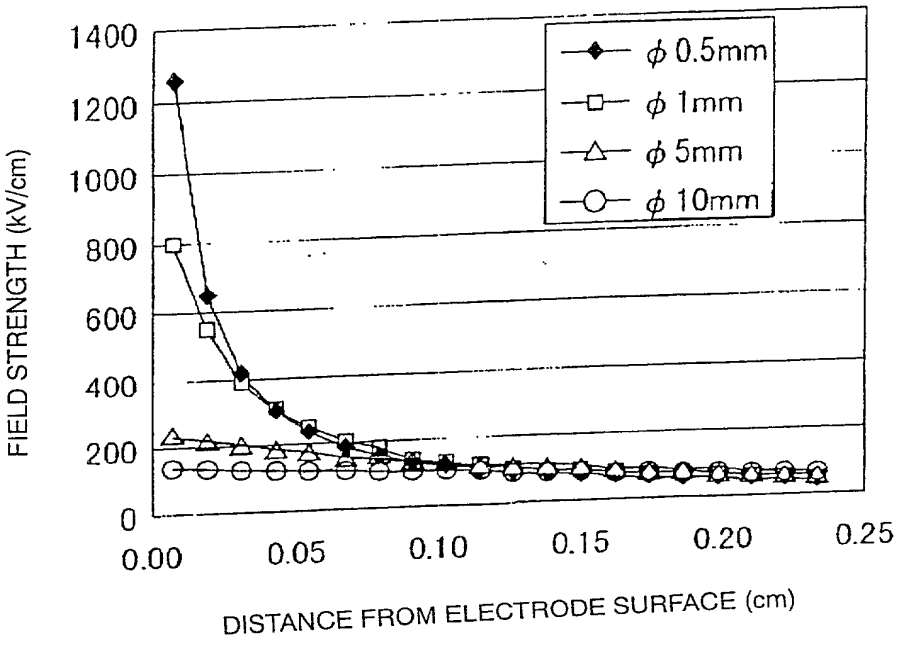


FIG. 4


1400
1200
1000
800
600
400
200
0
FIELD STRENGTH (kV/cm)
0.00
0.05
0.10
0.15
0.20
0.25
DISTANCE FROM ELECTRODE SURFACE (cm)
φ 0.5mm
φ 1mm
φ 5mm
φ 10mm

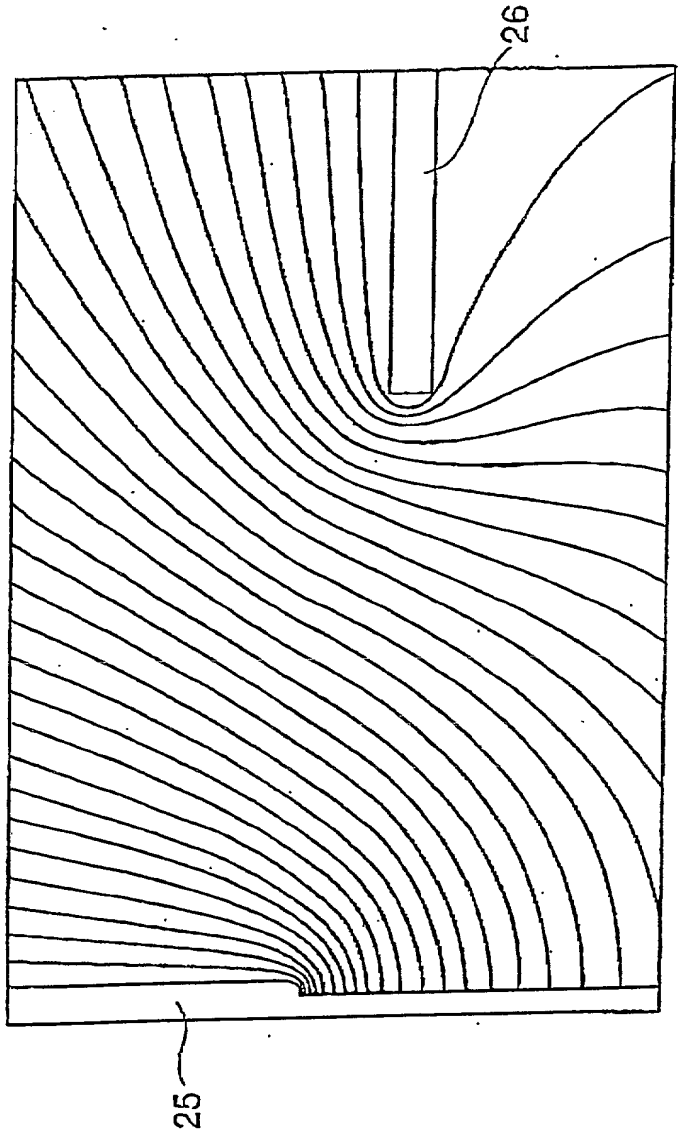


FIG.5

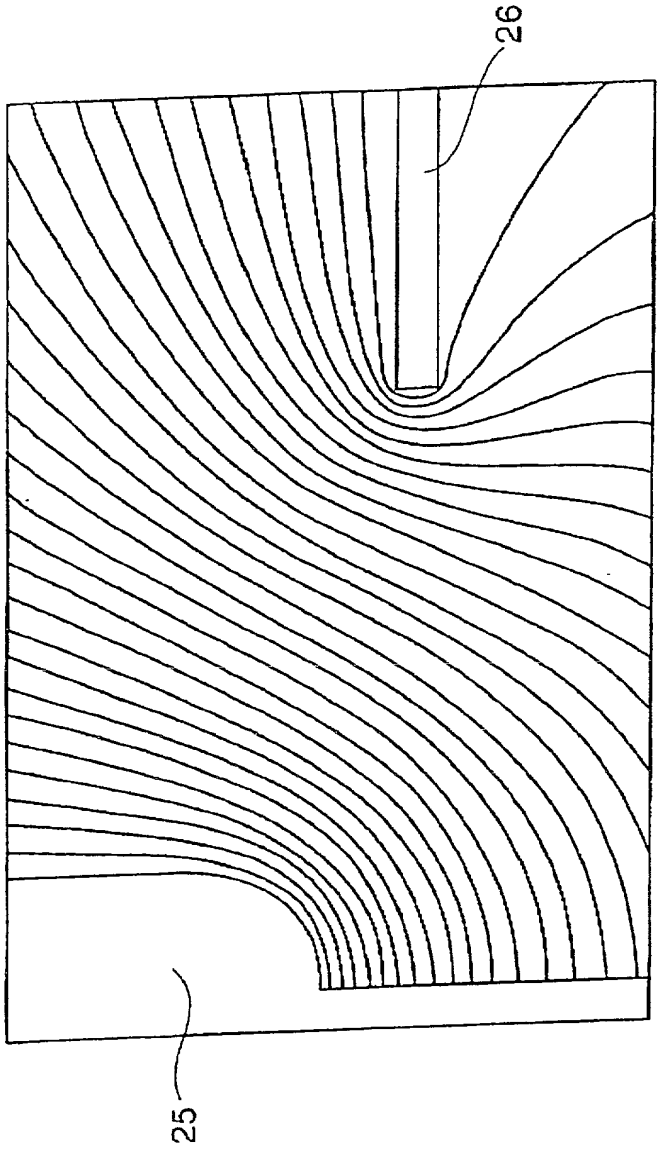


FIG. 6

FIG. 7

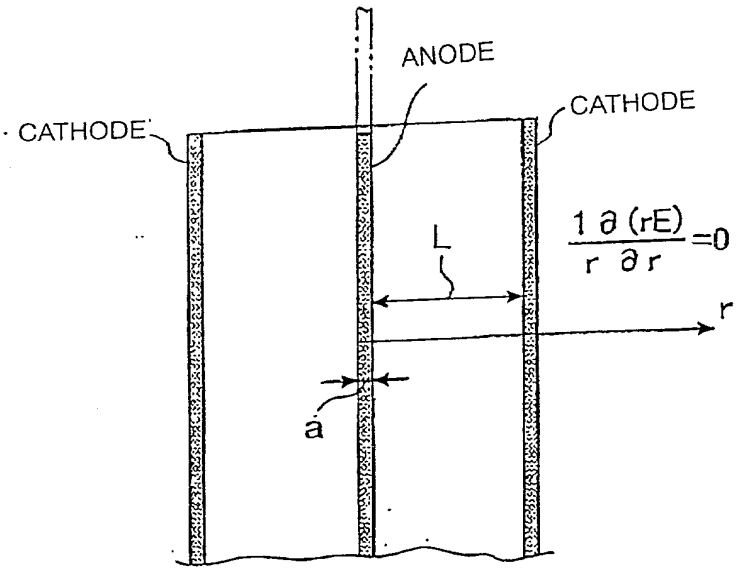

ANODE
CATHODE
CATHODE
L
$\frac{1}{r}\frac{\partial (rE)}{\partial r}=0$
r
a

FIG. 8

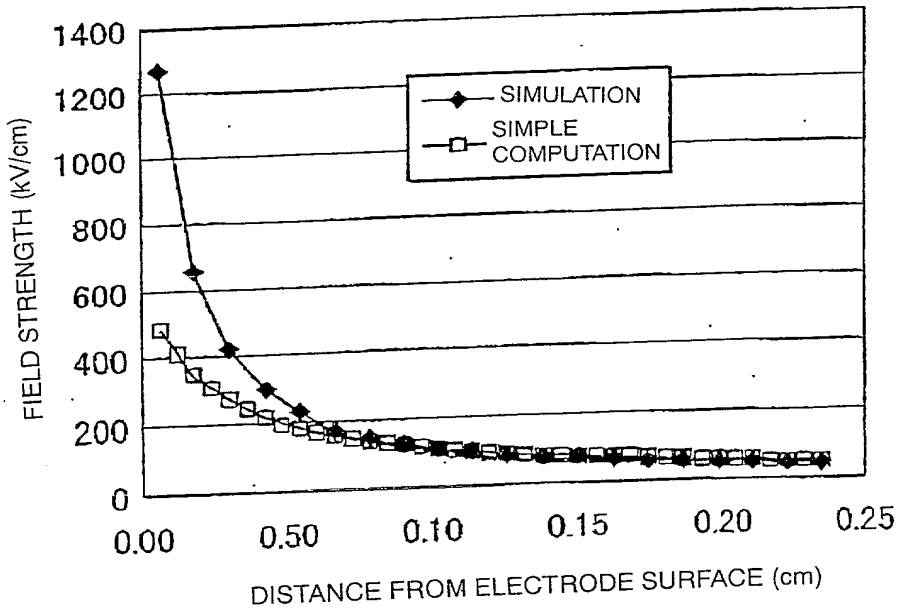

1400
1200
1000
800
600
400
200
0
FIELD STRENGTH (kV/cm)
SIMULATION
SIMPLE COMPUTATION
0.00
0.50
0.10
0.15
0.20
0.25
DISTANCE FROM ELECTRODE SURFACE (cm)

FIG. 9

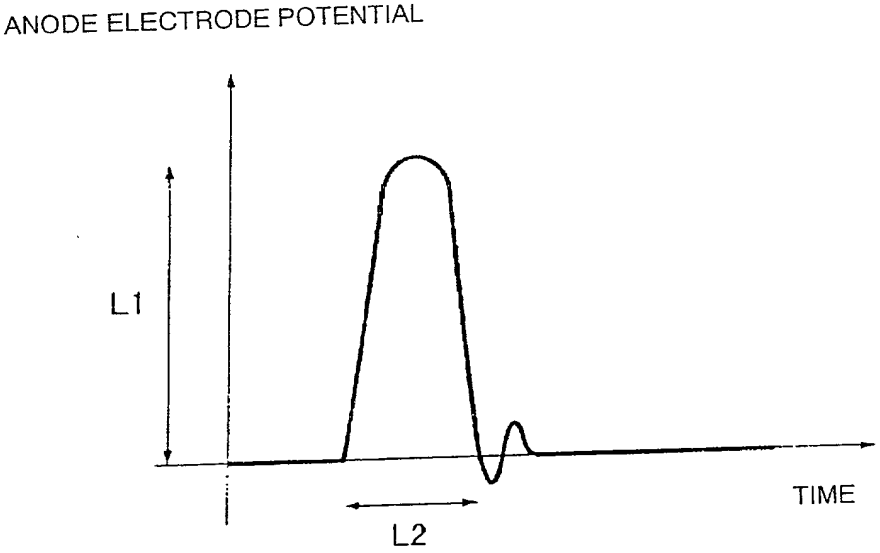


FIG. 10

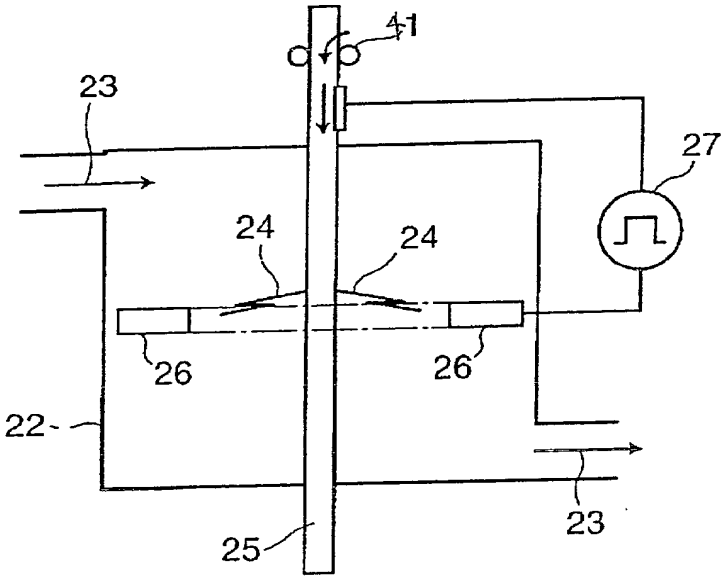


FIG. 13A

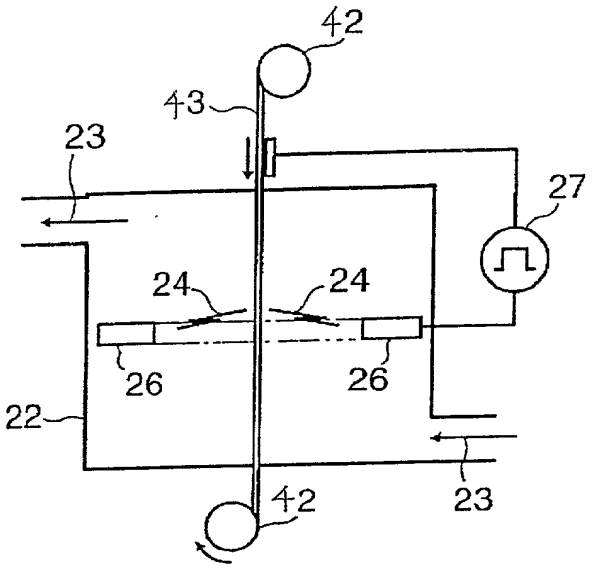


FIG. 13B

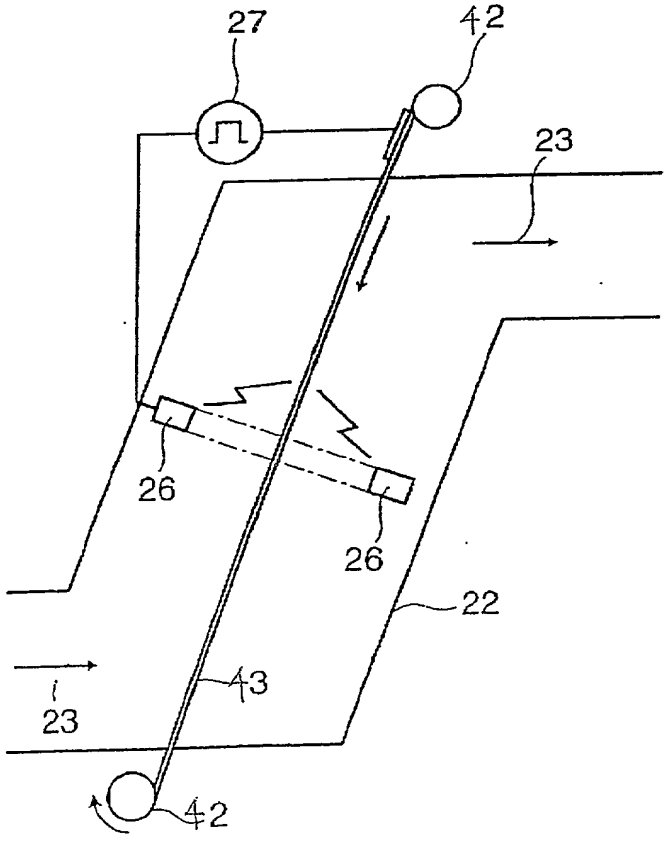


FIG. 11

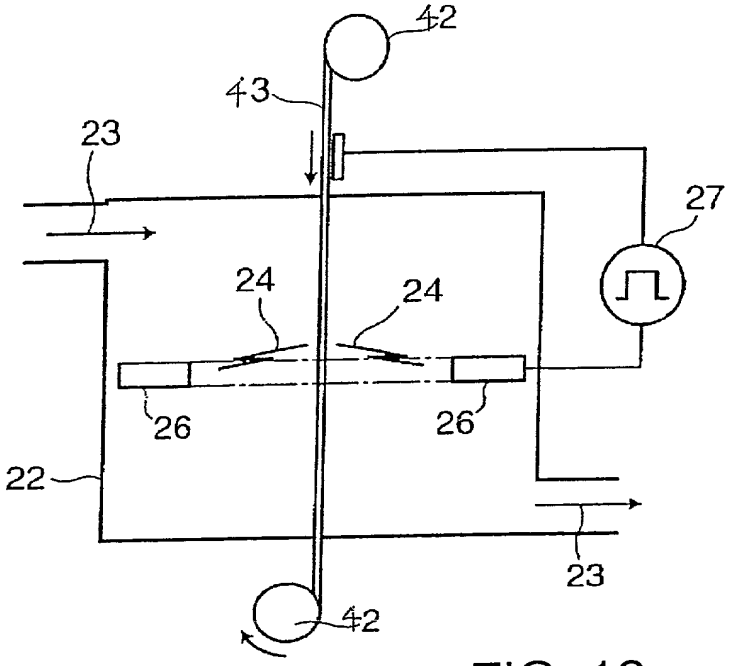


FIG. 12

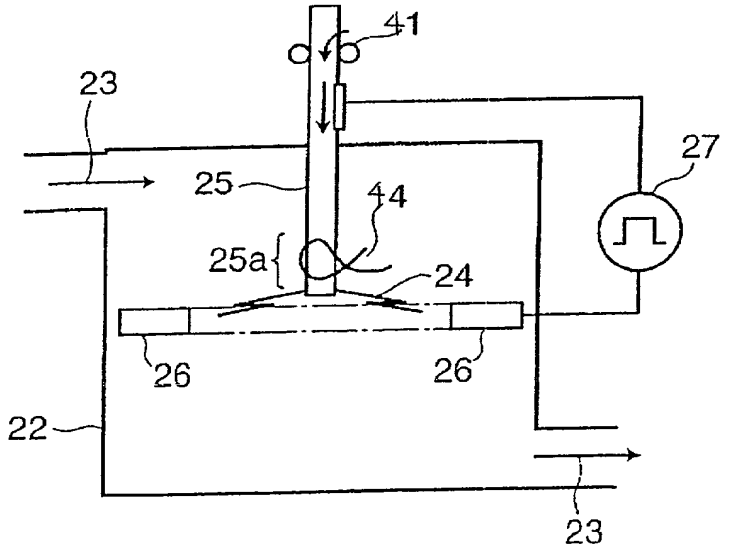


FIG. 14

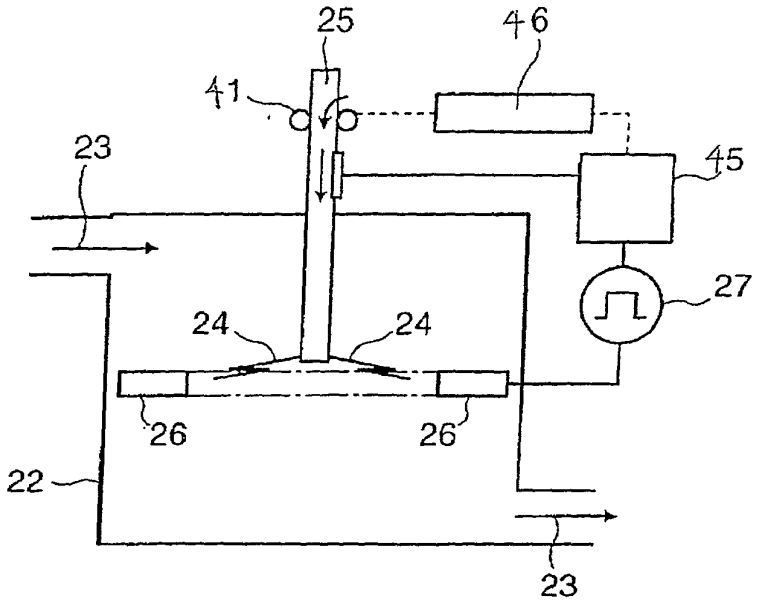


FIG. 15

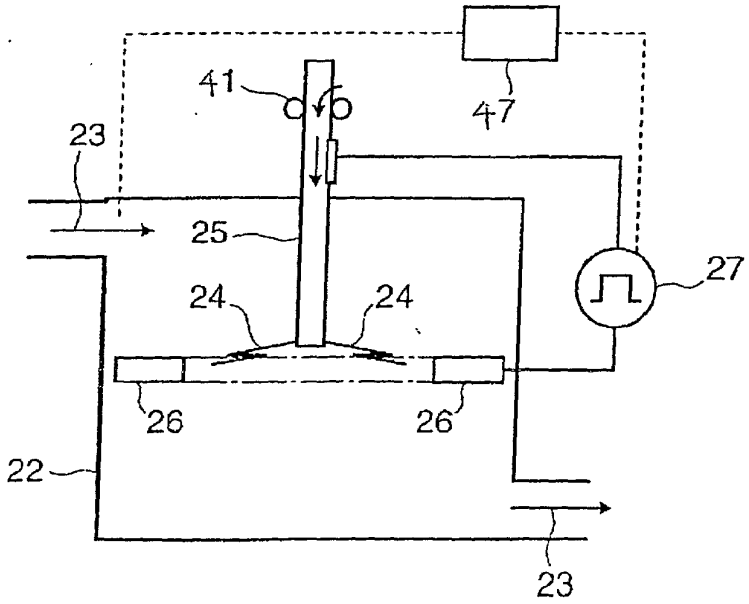


FIG. 16

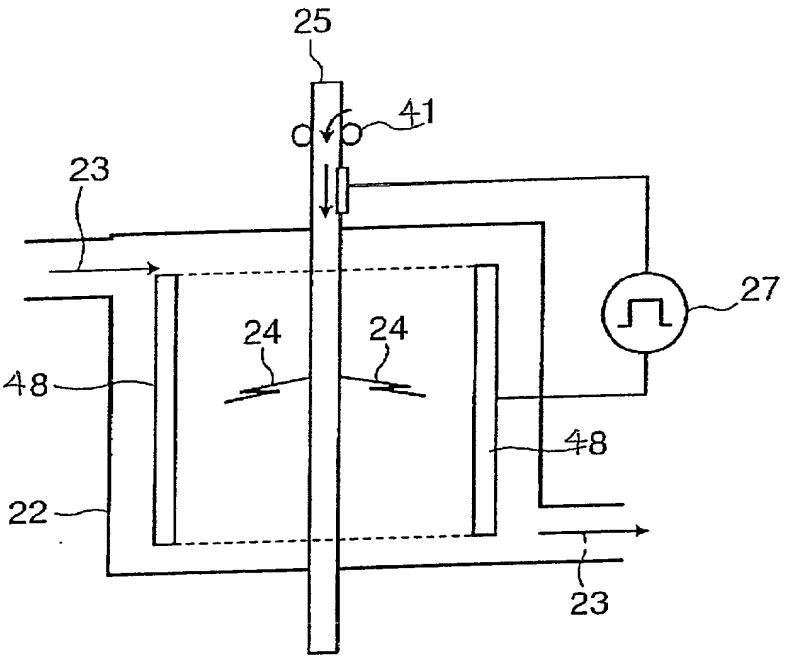


FIG. 17A

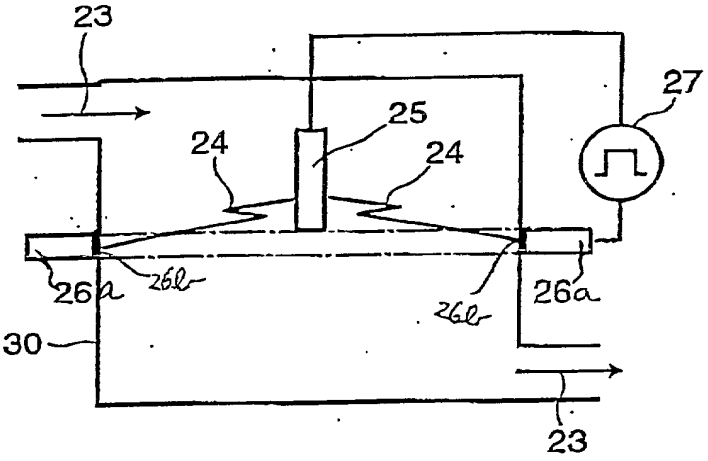


FIG. 17B

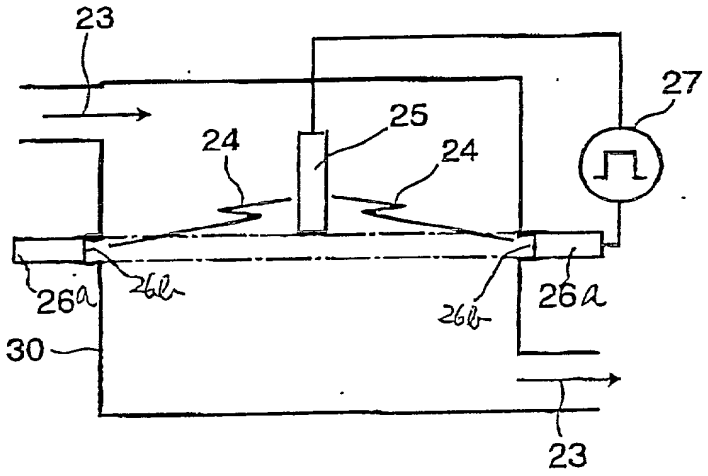


FIG. 18A

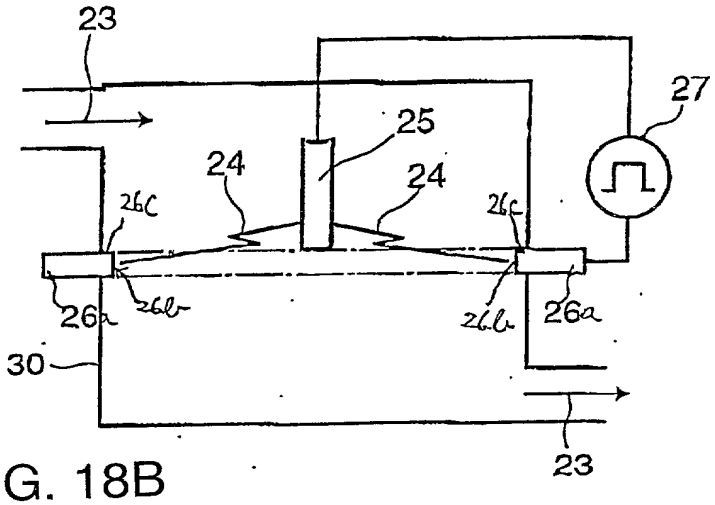


FIG. 18B

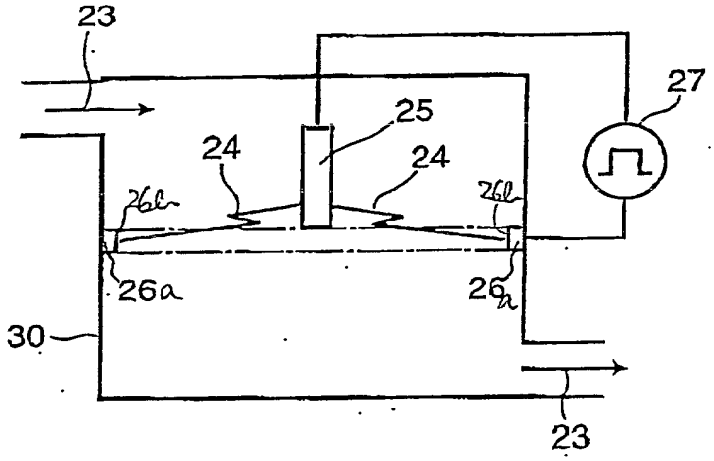


FIG. 19

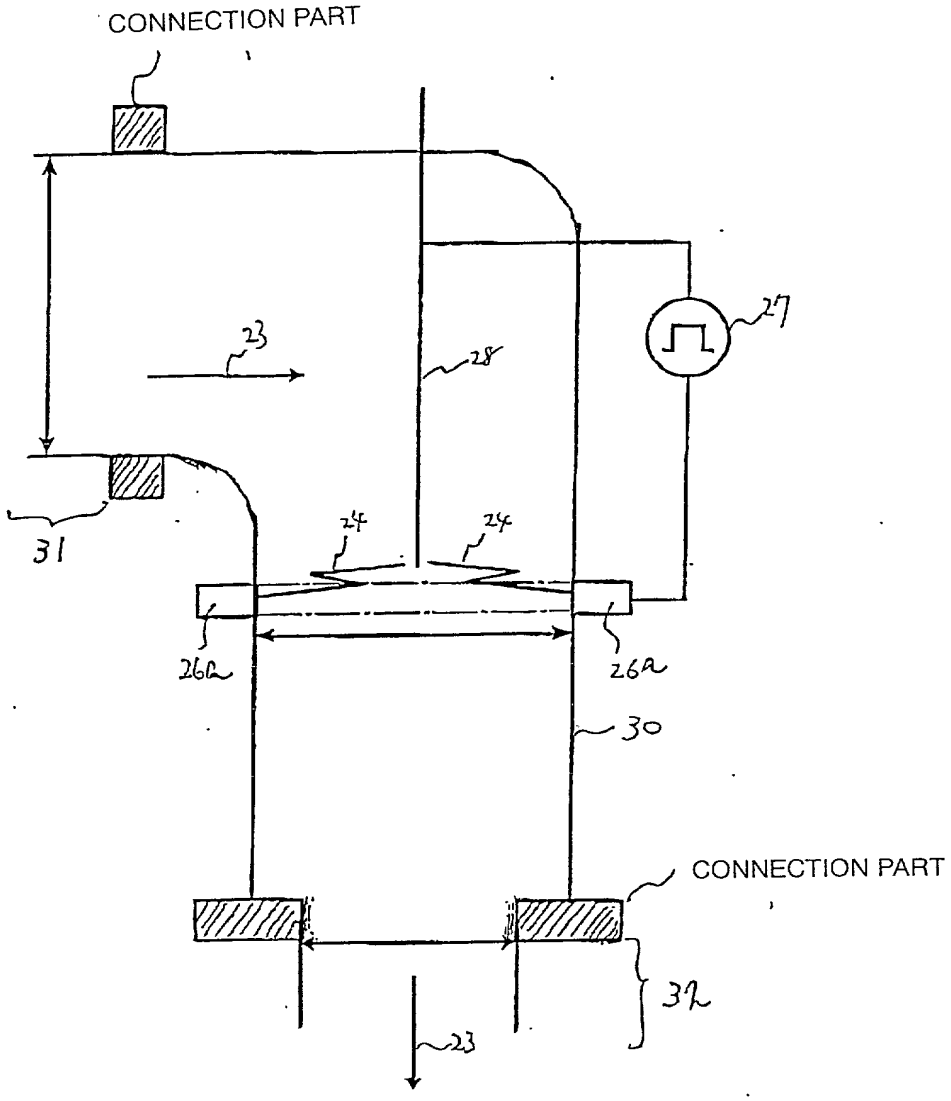

CONNECTION PART
23
28
27
31
24
24
26a
26a
30
CONNECTION PART
32
23

FIG. 20

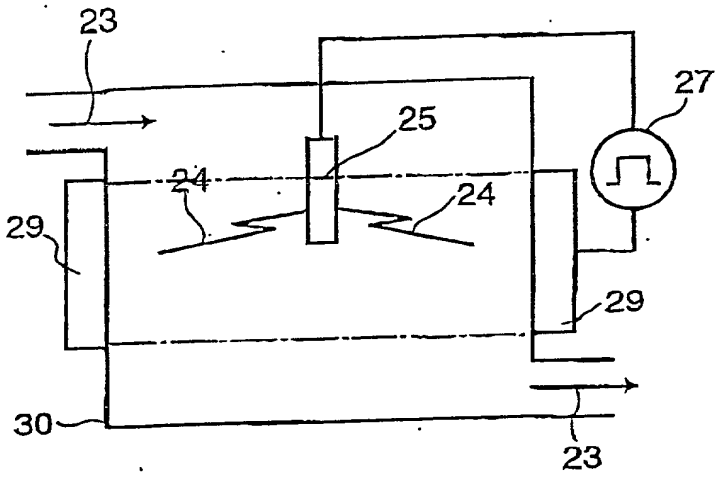


FIG. 21

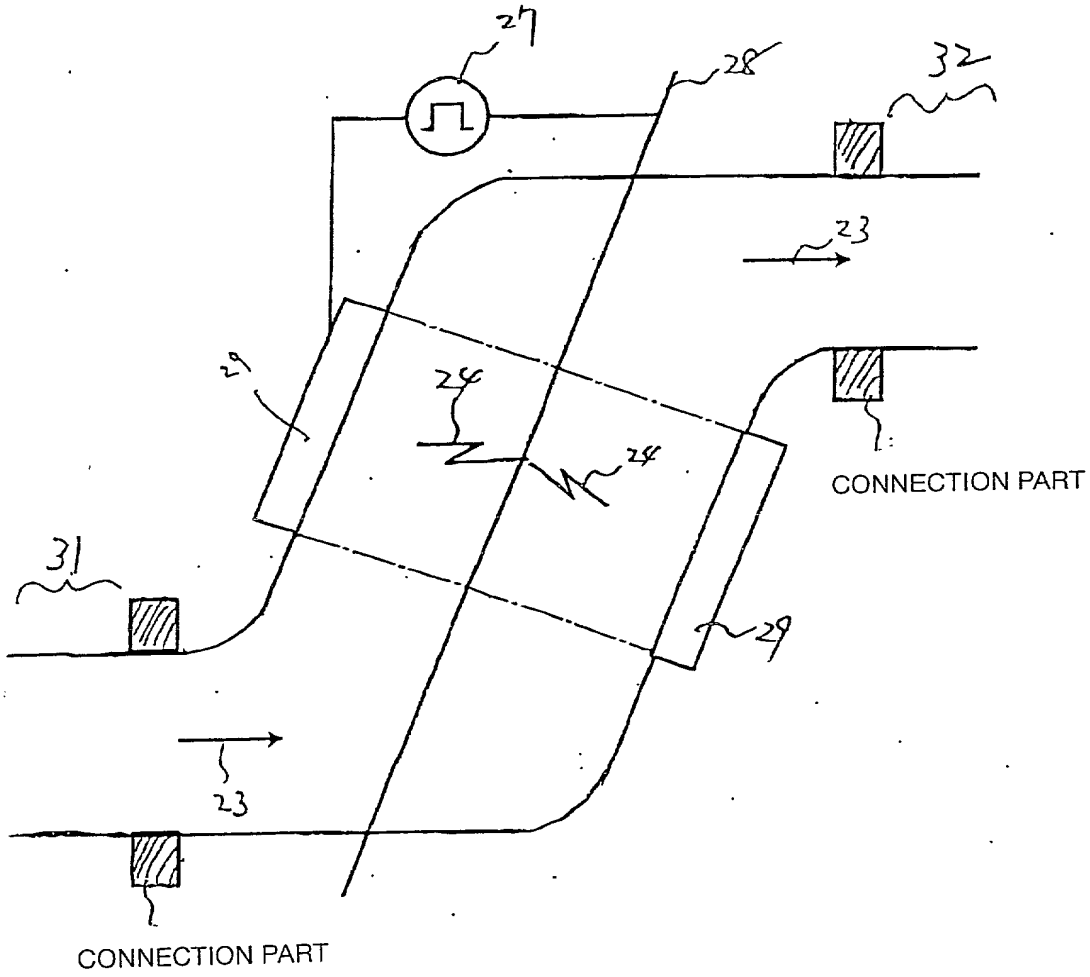


FIG. 22A-1

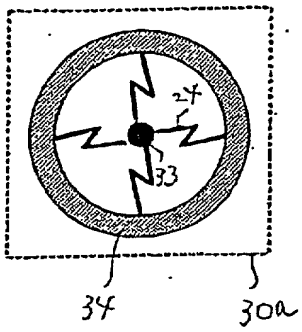


FIG. 22A-2

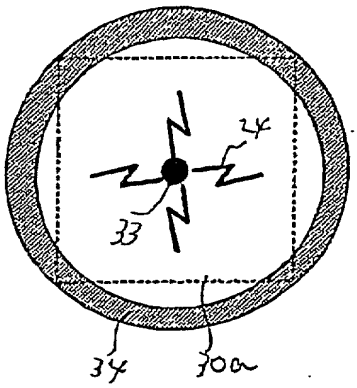


FIG. 22B-1

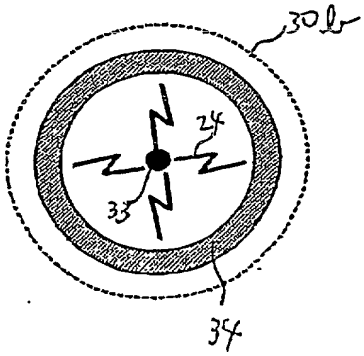


FIG. 22B-2